

AMENDMENTS TO THE CLAIMS

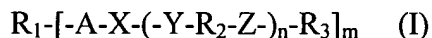
This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

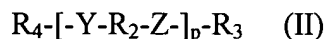
1-16 (Canceled)

17. (New) A fire-resistant composition comprising at least:

- a) a star polyamide-based polyamide matrix comprising at least macromolecular chains of formula (I):



And, optionally, macromolecular chains of formula (II):



wherein:

Y is the radical: $\begin{array}{c} \text{---N---} \\ | \\ R_5 \end{array}$ when X and Z represent the radical: $\begin{array}{c} \text{---C---} \\ || \\ O \end{array}$;

Y is the radical: $\begin{array}{c} \text{---C---} \\ || \\ O \end{array}$ when X and Z represent the radical: $\begin{array}{c} \text{---N---} \\ | \\ R_5 \end{array}$;

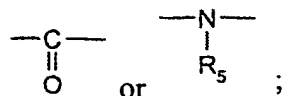
A is a covalent bond or an aliphatic hydrocarbon-based radical optionally having hetero atoms and having from 1 to 20 carbon atoms;

R₁ is a linear or cyclic, aromatic or aliphatic hydrocarbon-based radical having at least 2 carbon atoms, and optionally having hetero atoms;

R₂ is an aliphatic or aromatic, branched or unbranched hydrocarbon-based radical having from 2 to 20 carbon atoms;

R₃ and R₄ independently represent hydrogen, an -OH radical and/or a

hydrocarbon-based radical having at least one group:



R₅ represents hydrogen or a hydrocarbon-based radical having from 1 to 6 carbon atoms;

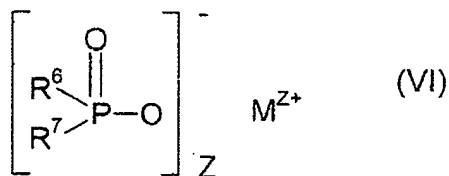
m represents an integer between 3 and 8;

n represents an integer between 50 and 200; and

p represents an integer between 50 and 200; and

b) a fire-resistant composition comprising at least;

a compound (F1) of formula (VI):



wherein:

R₆ and R₇ are identical or different and represent a linear or branched alkyl chain having from 1 to 6 carbon atoms and/or an aryl radical;

M represents a calcium, magnesium, aluminum and/or zinc ion;

Z represents 2 or 3; and

a compound (F2), which is a product of reaction between phosphoric acid and melamine and/or a product of reaction between phosphoric acid and a condensed melamine product.

18. (New) The composition as claimed in claim 17, comprising from 30% to 99%

by weight of the star polyamide relative to the total weight of the composition.

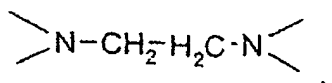
19. (New) The composition as claimed in claim 17, comprising from 1% to 70% by weight of the fire-resistant system relative to the total weight of the composition.

20. (New) The composition as claimed in claim 17, wherein the radical R_1 is a cycloaliphatic, arylaliphatic or linear aliphatic group, with a mass ratio between the weight of polymer chains of formula (I) and the total weight of polymer chains of formulae (I) and (II) being between 0.10 and 1.

21. (New) The composition as claimed in claim 17, wherein the radical R_1 is an aromatic radical, with a mass ratio between the weight of polymer chains of formula (I) and the total weight of polymer chains of formulae (I) and (II) being less than 1.

22. (New) The composition as claimed in claim 17, wherein R_2 is a pentamethylene radical.

23. (New) The composition as claimed in claim 17, wherein R_1 represents a cyclohexanonetetrayl, 1,1,1-triylpropane, 1,2,3-triylpropane or:



24. (New) The composition as claimed in claim 17, wherein A represents a methylene, polymethylene and polyoxyalkylene group.

25. (New) The composition as claimed in claim 17, wherein the phosphinic acid of compound F1 is dimethylphosphinic acid, ethylmethylphosphinic acid, diethylphosphinic acid, methyl-n-propylphosphinic acid, or a mixture thereof.

26. (New) The composition as claimed in claim 17, wherein the compound F2 is melamine polyphosphate, melam polyphosphate, melem polyphosphate, or a mixture thereof.

27. (New) The composition as claimed in claim 17, further comprising from 0 to 80% by weight of reinforcing fillers relative to the total weight of the composition.

28. (New) The composition as claimed in claim 27, wherein said reinforcing fillers are glass fibers, carbon fibers, mineral fibers, ceramic fibers, heat-resistant organic fibers, polyphthalamide fibers, mineral fillers, wollastonite, kaolin, clay, silica, mica, mineral nanofillers, montmorillonite or α -Zr phosphate.

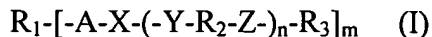
29. (New) The composition as claimed in claim 17, further comprising fire-resistant agents or fire-resistant-system synergists chosen from the group comprising inorganic compounds and/or mineral products.

30. (New) The composition as claimed in claim 29, wherein the fire-resistant agents or fire-resistant-system synergists are zeolites, ceramic powder, magnesium hydroxide, hydrotalcites, magnesium carbonates, zinc oxide, zinc stannate, zinc hydroxystannate, zinc phosphate, zinc borate, zinc sulfide, aluminum hydroxide, aluminum phosphate, red phosphorus, organonitrogen compounds of the triazine class, melamine, melamine cyanurate, melamine phosphates, polyphosphates, pyrophosphates or organophosphorous acids.

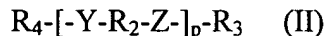
31. (New) A process for manufacturing a fire-resistant composition, comprising the steps of:

1) mixing together:

- a) a star polyamide-based polyamide matrix comprising at least macromolecular chains of formula (I):



and optionally macromolecular chains of formula (II):



wherein:

Y is the radical: $\begin{array}{c} \text{---N---} \\ | \\ R_5 \end{array}$ when X and Z represent the radical: $\begin{array}{c} \text{---C---} \\ || \\ O \end{array}$;

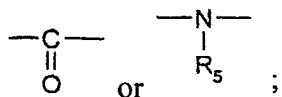
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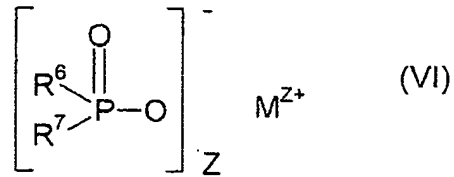
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b) a fire-resistant composition comprising at least:

a compound (F1) of formula (VI):



wherein:

R₆ and R₇ are identical or different and represent a linear or branched alkyl

chain having from 1 to 6 carbon atoms and/or an aryl radical;

M represents a calcium, magnesium, aluminum and/or zinc ion;

Z represents 2 or 3; and

a compound (F2), which is a product of reaction between phosphoric acid and

melamine and/or a product of reaction between phosphoric acid and a

condensed melamine product; and

2) recovering the fire-resistant composition obtained in step 1).

32. (New) An article made by the process of forming a composition as claimed in claim 17, said forming comprising an extrusion process, a molding process, an injection process or a spinning process.